Whale translate.

1. Create a variable named input that is equal to any phrase you’d like. This variable will contain the text you want to translate into “whale talk”.
2. Whales only speak with the vowels, “a”, “e”, “i”, “o”, and “u”. Using these lowercase letters, create an array named **vowels**. This array will not be updated so be sure to choose the appropriate declaration keyword.

Note: The use of this array will be more apparent within the following steps.

1. Create a variable named **resultArray** and set it equal to an empty array: []. This will serve as a place to store the vowels from the input string.
2. Create a loop to iterate through each letter of the input variable text. In a later step, we will compare each letter with our **vowels** array.
3. To check your work, log the iterator numbered position inside the **for** loop and run your code. This should count the number of characters in your **input** string.Comment out this code when you’re ready to move on.
4. Create a nested **for** loop inside of the **for** loop you just wrote. Make the inner loop iterate through the **vowels** array each time the outer loop runs.This will enable you to check each letter of **input** against all the vowels elements during each iteration.
5. To check your work, log the iterator number positions inside the inner **for** loop and run your code. You should see **0** through **4** repeatedly because **vowels** is 5 elements long.
6. Inside the second **for** loop, write a code block that compares the **input** letter to every letter in the **vowels** array.Note: To check that everything is working properly, log letter matches to the console.
7. Now instead of just logging the letters, add them to the results array.

Note: To check your work use **console.log()** to print your **resultArray**. The letters you logged to the console in step 8 should be now included in your **resultArray**.

1. Whales double their **e**‘s and the **u**‘s in their language.Write an if statement that checks if each letter in the input string is equal to '**e**'. If so, use the **.push()** method to add **input[i]** to the **resultArray**.

Note: This statement belongs before the inner for loop block inside the outer for loop. This is because you only want to perform this check once for every letter in the input.

1. Next, you want to double the letter **u**
2. At the bottom of the program, log the **resultArray** to the console.
3. Currently, **resultArray** outputs an array of characters. To produce proper whale language, we want to capitalize the array elements and put them together as one string.Declare a variable **resultString** that joins our **resultArray** into a single string and capitalizes all of it’s letters
4. Run the program and sing the output out loud — you officially speak whale!

Note: To confirm, if you change the value of **input** to `xin chao cac ban`, the whale version would read: 'IAAA'.